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Schircks Laboratories

DATA SHEET

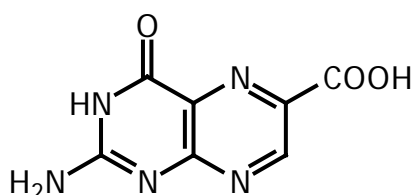
Pterin-6-carboxylic acid

Product No. 11.403

Synonyms: 2-amino-4--dihydroxypteridine-6-carboxylic acid

Abbreviation used: P6C

CAS No: 948-60-7



$C_7H_5N_5O_3$

MW 207.1

Description	Light yellow powder															
Biochemistry	Photo-oxidation of pterins produces H_2O_2 and pterin-6-carboxylic acid.															
Solubility	Pterin-6-carboxylic acid is practically insoluble in water. It is slightly soluble in 0.01 M NaOH. pH approx. 11.0, (0.2 g/100 g 0.01 M NaOH (22°C)). Ultrasonication may be used to improve dissolution.															
Analytical methods	<table border="0"> <tr> <td>HPLC</td> <td>column</td> <td>Waters Spherisorb S5-ODS 1, 4.6 x 150 mm</td> </tr> <tr> <td>Conditions</td> <td>eluant</td> <td>50 mM $(NH_4)H_2PO_4$ pH 3</td> </tr> <tr> <td></td> <td>flow rate</td> <td>2 ml/min</td> </tr> <tr> <td></td> <td>wavelength</td> <td>254 nm</td> </tr> <tr> <td></td> <td>solution</td> <td>1 mg/ml 0.01 M NaOH</td> </tr> </table>	HPLC	column	Waters Spherisorb S5-ODS 1, 4.6 x 150 mm	Conditions	eluant	50 mM $(NH_4)H_2PO_4$ pH 3		flow rate	2 ml/min		wavelength	254 nm		solution	1 mg/ml 0.01 M NaOH
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	flow rate	2 ml/min														
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	solution	1 mg/ml 0.01 M NaOH														
Purity: HPLC	>99.0%															
Stability	Pterin-6-carboxylic acid is not hygroscopic. The powder stored at room temperature for 3 months is very stable and no change in its purity is seen. A 1 mM solution of P6C is stable at RT for at least 10 days. HPLC of the solution shows 0.6% degradation after this time.															
Storage	Keep the powder dry in vials at $-20^\circ C$ or colder. P6C can be transported without the use of dry ice.															
Use	P6C is an important standard for analytical work. It is sold for laboratory use only.															
Safety	P6C is known to be safe and there are no special precautions required in handling this product.															

Further data sheets can be found on our website www.schircks.ch

The information given in this publication is based on our current knowledge and experience. It does not relieve users or processors from carrying out their own precautions and tests.